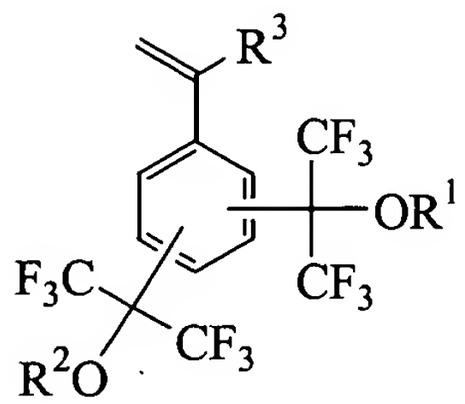
LISTING OF CLAIMS

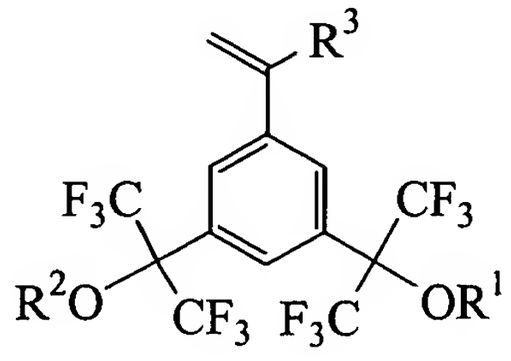
1. (original) A fluorinated polymer obtained by living anion polymerization of a monomer having the general formula (1):



(1)

wherein R^1 and R^2 each are an acid labile group and R^3 is hydrogen or methyl, and having a polydispersity index of 1 to 1.20.

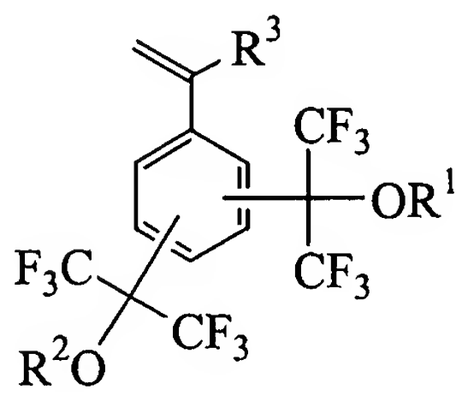
2. (original) The fluorinated polymer of claim 1 wherein the monomer has the general formula (2):



(2)

wherein R^1 and R^2 each are an acid labile group and R^3 is hydrogen or methyl.

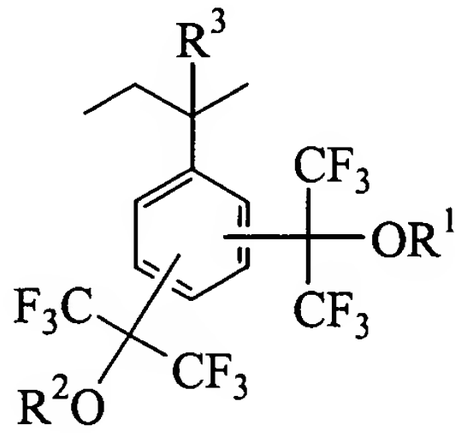
3. (new) A process for preparing a fluorinated polymer comprising the step of subjecting a monomer having the general formula (1):



(1)

wherein R^1 and R^2 each are an acid labile group and R^3 is hydrogen or methyl, to living anion polymerization in the presence of an organometallic compound as a polymerization initiator in an organic solvent, thereby obtaining the fluorinated polymer having a polydispersity index of 1 to 1.20.

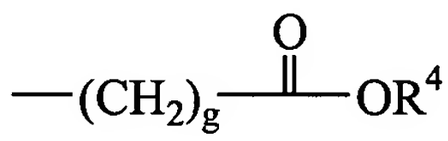
4. (new) A fluorinated polymer having a recurring units of the following general formula (1a):



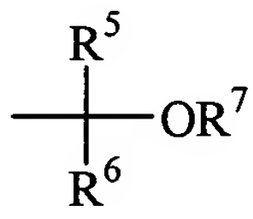
(1a)

wherein R^1 and R^2 each are an acid labile group and R^3 is hydrogen or methyl.

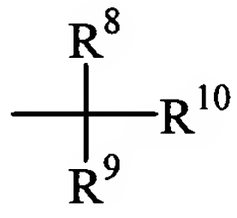
5. (new) The process of claim 1 wherein the acid labile groups represented by R^1 and R^2 are selected from the group consisting of formulae (3), (4) and (5):



(3)



(4)



(5)

wherein R^4 is a tertiary alkyl group of 4 to 20 carbon atoms, an oxoalkyl group of 4 to 20 carbon atoms or a group of formula (5);

wherein R^5 and R^6 are independently hydrogen or straight, branched or cyclic alkyl groups of 1 to 18 carbon atoms; and

wherein R^7 is a monovalent hydrocarbon group of 1 to 18 carbon atoms.

6. (new) The process of claim 1 wherein the monomer is copolymerized with styrene.

7. (new) The process of claim 1 wherein the polymerization is conducted in the presence of a polymerization initiator.

8. (new) The process of claim 1 wherein the polymerization is conducted in the presence of a polymerization initiator selected from the group consisting of n-butyl lithium, sec-butyl lithium, tert-butyl lithium, sodium naphthalene, sodium anthracene, □-methylstyrene tetramer disodium, cumyl potassium, cumyl cesium, phenyl magnesium bromide, phenyl magnesium chloride, ethyl magnesium bromide, ethyl magnesium chloride, n-butyl magnesium bromide, and n-butyl magnesium chloride.

9. (new) The process of claim 1 wherein the polymerization is conducted in the presence of an organic solvent.

10. (new) The process of claim 1 wherein the polymerization is conducted in the presence of an organic solvent selected from the group consisting of: cyclic ethers, aromatic hydrocarbons, aliphatic hydrocarbons, and mixtures thereof.